RETI TWG Planning Scenario Discussions, 2009 Review
2010-01-07

The TWG planning scenario discussions have been based on CalWEA's proposal to the CAISO, which also is attached to this email. Their proposal includes some caveats that the TWG did not object to, according to my notes. The TWG did, however, disagree with the usefulness of some of CalWEA's scenarios and modified others. Many details have yet to be agreed upon.

TWG discussions to date indicate that these initial scenarios are intended to represent a wide range of supply options for purposes of identifying the "least regrets" projects only. The logic is that any transmission upgrade found to be needed under all these different scenarios (or perhaps 3 out of 4) could safely be assumed to be found needed under any more realistic scenario. It is expected that least regrets upgrades would be to foundation and/or delivery lines. Identification of needed upgrades to collector lines is expected to require the use of more detailed scenarios.

Please check my memory of our previous discussions for accuracy and consider the questions at the end of this document.

Scenario #1 – Commercial Interest Scenario
This scenario assumes supplies consistent with known commercial interest identified through utility contracts and commitments, interconnection agreements, ISO queue status, etc. This scenario is similar to CalWEA's scenario #1 and the proposed CPUC LTPP "trajectory" scenario.

Scenario #2 – RETI Basecase Scenario
The TWG scenario is similar to CalWEA's, using the updated CREZ data due from Black & Vetch in the next few weeks. It was noted that out of state resources have arbitrarily been given an enviro score equal to the median scored of CA CREZ by default and therefore are shown in the bubble chart on the boundary between quadrants. As I recall, the TWG proposed to include OOS projects lying next to the lower left quadrant in that quadrant.
Refer to the CalWEA discussion for details. One salient feature is the suggestion that no more than 50% of the energy from any CREZ should be assumed in the scenario's supplies. The quadrant would be expanded if 50% does not meet the net short amount.

Scenario #3 – RETI In-state Scenario
This scenario is intended to capture the possibility that RPS development will be heavily weighted toward California projects. Last year's debate over proposed l RPS legislation indicates interest in such an option. Supplies for this scenario would be identified similarly to scenario #2 except that OOS projects would not be included.
Details have yet to be discussed.

Scenario #4 – RETI Out-of-state Scenario
This scenario represents the opposite extreme from #3 in that supplies would be assumed to be heavily weighted toward OOS areas.
Details have yet to be discussed.

QUESTIONS FOR TWG
1) Does the TWG agree that these four scenarios represent a sufficiently broad range of supply options so that CA transmission upgrades required under all 4 (or 3 out of four?) scenarios can

be assumed needed for renewables, pending agreement on a net short value and scenario details? What other details would be required for agreement?

2) Should non-renewable dispatch be left to the model (least cost) or should scenarios include sensitivities regarding modified dispatch of once-through-cooling or imported coal, for example?

3) What other scenarios, sensitivities or conditions should be considered in order to identify least regrets upgrades?